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WATION

The Oldest American Aeronautical Magazine

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VOLUME XXIV

Special Features

The Stinson "Junior"
The Detroit Air-Olympics
The Szekely SR-3 Air Cooled Engine

AVIATION PUBLISHING CORPORATION 250 WEST 57 STREET, NEW YORK

Publication Office, Highland, N. T. Entered as Second-Class Matter, Nov. 22,

NUMBER



AVIATION

CAMINEZ . CLIMB

Amplane (1) is powered by a Farehold Coming size of the same horsepower. In one minute after the take-off, the Castanes-nowweed 'release (1) will have clombed 40% harber (as 125% greater angle of claub) than 'plane (2). Why? for commercial air-craft—a is necessary

A CAMINEZ FOREKED THESE WE

Woss for the Canager Faring Book

that a high-speed peopeller does not give dunne chick and take-off, when high

CAMINEZ ENGINES

The New B.B.T. LANDING FLOODLIGHT



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in which safe night landings on be made. Economical both in initial co-

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Folder Transport



The 20th Century Limited

RESERVE POWER The Leviathan, largest ship in the world, uses 65,000 Horse Power at normal cruising speed. There is available 20,000 Horse Power.

The Twentieth Century Limited, crack train of the New York Central, uses 1500 H. P. on its normal high speed run. There is available 4000 H. P.

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PRATT & WHITNEY AIRCRAFT CO.

CARBIC

THE STARLING

AN ACHIEVEMENT AND AN INNOVATION IN DESIGN

Inaugurating new principles in design. Although technique is very important in the flying qualities of the airplane, the fundamental principles of design have not been departed from, but those things have been incorporated that have been neglected in the present day plane.

thin. That something more is clean cut design with safety and pay load the pracneal objectives.

Safety is assured by the remarkable balance of the plane. Of equal importance is ell controls operate with the least possible physical effort. Another important feamor which withstands any unusual strains and is practically noiseless in its

Next is the combination of airfolds that rives the plane a remarkable degree of stability that is found in no other plane. The STARLING embodies all of the fly scout pring an economical power unit of only 90 h.m. This is made possible by the

"O attain such airworthings to correctness of design and its construction quires something more than fine allows it to perform every mineuver known to the scout type. It can be flown and landed someth wall from either such pit. A student properly instructed on the STARLING is able to safely pilot most types of planes, without the necessity of

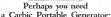
> Still the STABLING maintains a landing speed of only 30 miles per hour and a maximum speed of 104 m. p. h.

This remarkable plane was designed by an expert designing engineer, who has at this time two other planes to his credit that are being built under quantity pro-

duction with an approved type certificate from the Department of Commerce The eight years of actual experience in the aircraft industry is the basis on which

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. . . . Is the official record of firing in VOUGHT Airplanes in the United States Naval Air Service during the fiscal year 1927. The a MORE THAN TWICE AS MANY MILES AS WERE FLOWN IN PLANES OF ANY OTHER MANUFACTURER VOUGHT planes in the U.S. Army Air Corps, the U.S. Crase Gened, the Cuben Air Service, the Peruvain Air Service, and in many other countries. The operating record for the Naval Air Service has been held by VOLIGHT planes for meny years, the 1927 SAIRS" now being delivered, another new record is also When can better tell the real story of the nonelarity what can occur ten sie ren sury of the popularity,

VOUGHT... the Synonym for reliability



Miles-26,672 Hours in the Air.

The Oldest American Aeronautical Magazine East D Contact B. STORT BOWN, Ja Lectus D. Guntaux Games Newscan Fucines Renayer

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Too Seawer SBAS Are Covern Engage 1516 Scan or van 1808 Nameran Ast Torn. . 1520 NACA PROMES 1923

See Serva 1867 Surees and Edstreed Officer

Cubic Address: AKROEKO

For Year Compenience in Subscribing Flores send AVIATION to

The Navy PN-12 Scanlane. powered with two 525 hp. Wright Cyclone Engines



equipped with

SCINTILLA Aircraft Magnetos

SCINTILLA MAGNETO COMPANY

Continues to the E. S. Arrey and News

Their performance

Wright was drafted

days to produce so ex-

still semembered

must be a good engine . /" of was necessire

I made with the the reward is the popular comment-That must be a rood

Wright is significant. "A good engine"slone it carries on for hours wethour maning, for speed, maneuverability and endurance. The miles without stopping "A good engine"- Wright organization placed unsurpassed metseemingly without fatigue, a power-plant that ods of design and workmanship at the decoul knows no exhaustion whose performanc is so of former governments and the United States and

consistent that it seems to have no limits. "A good engage"-but back of that popular in quality of workmanship and performance comment is a story of conception, design, work. With this background, followed by further mambip, assembly, costs by the bundred, and in- development for nearly 14 years, it is but log figure one to every detail that makes a good en- ital that these entires perform as they do gue, not by change, but by deliberate appearing. Believing that the entire accommutal animals

Whicht Engines were born in the Great War, will be interested in knowing how cuefulls





The Oldest American Aeronautical Magazine

Cive Them Service

D PLANS and preparations now under way are carin the cash war-size for durability, sustant The tradering of survice to our ewages has proved to A serviced conceptr is not only a promper for went

Rescuing the Bremen

Ab OF the outstanding feetures of the East to West speeding of the North Atlentic that has shartend of record for the swiffers of the place by those How very with the case of the "Specials" it was a dif-

cut to elvilization in another plane. That yout was Just how the Government's and was salished in not rufts alear and it does not matter. But it is rather

surprising that the head of the U S Army Au Corps of his time in his office, and suite out and really then der aid to another names. However bis position is one lead auditages to getting the Bressen out of Greenely beare it to the afficer of rank in the Air Corps to head the papers expedition

The Twentieth Anniversary THE RICHTH day of next mouth will be one of

celebration in English nercentrical strokes for it waries the Exemplish congressory of the first airplant dight over Berink seil. The plot on that memorable serial venture was A. V. Ros and the plans was a triplane of his own construction fitted with a 24 hp. Antemetic engine Like the late William Wright's famous fluid at Kitty Howk, Mr. Boe's fluids at Brooklands was not love in duration as he only corseed a distance theless it was the beginning of scoomful heaver than appendixty to see only congression Mr. not for his appendix accomplyhouses twenty years upo but also for

from your When II was found impossible to ressure date





and party game, drop forced, host treated creababely such SEP roller fearings. Contex, the master acamerican red bearing in an S.K.F. bearing of the deep groovs, radial bull

Councilor and normalism are drug farmings heat treated







there are not the All of All and with two disputition measures and

The state of the same abstraction with case water past in place. Contro, the oplinder exembly. Note the contract of the columber or changes and contract the columber of the columber of the columber of the columber or changes and columber or columber

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tale need of the more Stateon "James" in figure position As the wheel is nearested behind the test poet the redder in



treat. Mach , on dening at the Detroit Show vs. by AM in tables, while the other on \$/10 in, by \$00 in. tables. The control house are webled directly to the space.

tober welful between. There are an oba; the surper explore is respected by a Warren true of 5/35 in, toben; welded between the apper spar member and the traduct ofce, while

the lower surface is supported to a similar fashion by taken between the lawer may monthly and the trathing edge. The allerres are controlled by peak soils and bell cranks. The

The Stinson "Junior"

SM-2 is Almost Identical to the Detroiter Except that it is Smaller and is Powered with a 110 Hp. Warner Engine

O NE OF the free places to get rate production with the new Warner Search corner in the Shanes "Januar" The value of the SM-2 is quote wide, with four wicker

These takes are supported in special graphsts bearing and this way the control leastness next be forestler and astions as the freelage to provided. The stability make sensets of a lover and maket emangement. The alpenner sold or student. Although the plane was not dropped to

Fuselage Structure of Seamless Steel and better needs forms a mobiled Press trees. The six-The descreed taken above and below the cakes crement by can take as recognous with the other take walked to it. yent. The trucks resent by the left strate attached to be



who are not relative are controlled by rock not taken with a hole at the point through which the long-row per

RATES CILABORD for various types of measures weight the metallishing of standard social works once with militaine, for the appliese measuratement are no lock that any saving affected in notineable in the overhead allgebra Concrete foom meteral of wood reduce the rate, on whosever of he extending their facilities, remoleting or rehabiling

> Learns of the furthery units of the Suniton Asystana Co.,





are permanently closed, is discretiment The recommendations of the fire imagence agents will be carried set in remodeling of the old factory hubban, save Victor Bore, general manager of the scorpany, so will the recommendations made with the section of the new build-The word working and dope departments are being bound in a building separated from the ald factory building by a 55 ft. deleasery. But a fire well will separate the two de-

shifting it from one department to norther, but with wide down, a separate yearway, which can be covered with a light easeper which is not connected with the heaffings and thus

Continued on year 1549

The Detroit Air-Olympics Plans Nearing Completion for the Holding of the National Air Tour

Cordon Report Ruce and National Model Contest By JOHN T. NEVILL

W 1722 A "pathfador" plans over making a cream of the national and international necessarilest socials to be hold in

The nathflading plane, carrying Bay Cooper, toor manager,

states and will receive at least 28 days to complete. Two propositive symmetries. Manager Cooper unit, and the first bags such, while England, Switzerland, Argentina, and Den-



National Bulbon Reso-efficienties contest for the estemstager of the Stonge Apprech Corp., Dr. George M. LeOu ice, Detroit physician and nationally known bellioused, and wassing fight, as side. Historian, pilot of a beliese sponger are so sale. Asked for the remaining two Detroit color Judge Henry S. Halbert of Wayne county probate cort. president of the Detroit Bellow Clob, and sedant bellowed mottee of the Based of Commone as chorress of the before

To trading at "dape" and wood working so the more od that the magazine companies consider worth possibling. er natural gan portable devices would give a 12 cars reducbut, visin a re-wiring of the building for electricity would before the rate 15 cause If the company will not permit the storage of extra acety-

A rejustion of 13 cools also is given for replacing of any eyen or house type electric meteor with "straight inderfoo" Smell as it may seen, motal holous for workmon's sity defing gives the first the adventage of 5 cents a handred

for making a few shanges on their present factory building

the being aided, the Swallow Arritane Co. of Worlda. the last here able to reduce its fire inversage rates from

use a handred to \$1.50-oneto a suring in the source of a

nag, two years or more. And, to better describe the even-100's new plant, we may well perfere it from the fire merr-

as the center the new buildings are of brack, steel, con-

when to add more attractors are knowned frequency, a few ad-

Non-Radwood 40 Grees a Hundred

Centerned on page 1540

Rules of the 1928 National Air Tour FRINK RIGHT, R. Fact Relation Tracky, denoted by Ed. part in the place providing the following lead confer to or

and Il Ford, shall be competed for anymally by conser- and he the naturation of the Contest Commenter (2) This occased shall be in the nature of a orrow-sensity (b).-The centest load may consist of passengers, or it and

government-owned places will not compete in this Tour. (7) Each simpless extered in the National Air Tour shall (8) No surplace shall be eligible to compete as the Naand hallant or bullent in addition to bill tasks of exclusi and in callinged country to bring the contest load of the place up to maximum needed head permitted by the Deport-

be received to here each countril with full guidant tooks. esperimental linears for the purpose of the Test. The se-The same will works to oil tanks around that a search of H. continue of such swirms shall be optional with the Tour war-

N.A.C.A. Progress

Industry Delegates Witness N.A.C.A. Equipment Demonstrations at Third Annual Conference Held at Langley Field

CONFERENCE WITH the secrets industry and the most stilling place of approxima in the wind based which approxima is a describe help connected manufacturers below a get of six 20 ft, across a maximum velocity of 130to make their registers was the salous factors of the mph. The cight blood propoler which considers that all Tried Armaid Conference of the National Advisory Committee is driven by two 1,000 km. Disney sparings. The size and saged to Accessed which was hold at Langley Field, Va. on of this tennel enable tests to be made on full sleed applears for Asymptotics was sharted up 1905 in order that the United At first, work was done mostly for the Army and Nevy the country. The conferences of the industry and the his C.A. hour brought about closer combination of the



density properties and its reaction on the familiary and wings is known about it. A Whirlward capital sakin monipleze on various parts of the organe and sylunders. It is hoped



Group puring of delecates who attended the Third Assaul Conference of the National Advisory Committee for Assaugutin.

Fuselage Analysis

Stress Analysis of Commercial Aircraft, Chapter Number Twelve

letterage that a represents all the area to one ade of the se. graphestly. This method to probably less lengthy than the serial force of 1000 ft and b represents all the ages on the mostlyless method and his the added advantages of providing mile. This figure is then intersected by also also to see if we undentand the method. We have our extend--that as, a polygon of all the enternal forces acting on the trust. If the degrees closes we are once that our X and Y les at mater's a point at shows in the palvees. The seamember is e.d. A line is drawn through possi e of the poly

seele. For a 2,000 fb. place a seele of about 360 lb. to the

It easy and enable age to become familiar with the puthods Manmon Stability and Elevator Load

applied at the lad post and the side trace of the featings an-

goe parallel to e-d us the trees and endeficing in length cent and last mumber at this pauel poset is don. Through the poset a in the subseque a flar is decrea nazallel to be ordel it interprets the lime and which was drawn last. The

we now road and on the polygon we go from lawer left to force of 1760 fb. was obtained by measurement and flor to hated in the trues and infinited by -- 1760. Mings orlines composition and plus reductes transce. Renders the free the panel point. It is therefore in terrors. Die magnitude sel

tified to engine for better and as the back are small of of our picts. The farm of 2022 ib, to notice three caches rece to tall obtain the force necessary at the namer ho-In For 73 the gapper trues of the functions has been unadvered to members oil, die, ed. fire, oils, do not surry any lands.

on 30 to per my fit and so the load for this condition in it is it is a condition in it is it is a condition in it is it is in a condition in it is in it is

on the of the 2005 ft. The lead in action at the near

to of ver-care of the verboal tail surfaces. This must be

The force of 19810 fit setting three melecs above the upper

Mary 23 199 | Mar 25, 1925

To circum none oden of the leads on the large manufaces X 755 100.5 - 485 fb This lead in applied at the de-

the deares of the members can be based. These members are

wends over small and it is usually possible to use the mini-

At they starm of the analysis it is percental that we know the egact distribution of our weights. With this is view we have constructed a balance diagram in Fig. 75. The ries are nablished in Chapter 30 in analyzing the landing goar. The ler finare is located on the disgress; the vertical reference line, the threat line is also drawn on the diagram. All 60'

employ person

burranted attitude. With this in view the lunder over as The two water combon of the organ mount do set take early lead on the structure is complete for this experience with not those members. The leads in the other members of the

N====== the head between these two names in these \$190.5 \times 20.95 - 2005 th at the wheel; 7180.5 × 30,66 - 6177.5 th at the The short norman of the analysis of this condition in the make the forward part of the furnings strong cannot to with stand the power over loads. It is desired that if anything me

The fine of action of this load cate the exceed 23 in

In this condition the plane is seemed to be pushing as shows in Fig. 76. The weight of the place times the those point landour load factor is setting vertically described

of the plane but ony analysis is being made for only one side

denote: reducted by +1430 on the true. The rest of will allow. The Common Department specifics witnesses to tree . analyzed in the name names used the loads be- mass of taking that very he med. These will be given later

Scools from the damps

In deciding upon the center of gravity position of any year

Nor 28, 1926

To Offer ConstitutionConst. Air:Rail Service. NEW YORK to Los Angeles passenger service conductor

permit passengers to leave New York on the Pennsylvania Railroad at 8-25 in the evening, take an surplene at a point rune Cobundon, O., after breakfast in the recover, slow for routs will require two fars. This compares with four days

To Use Assertions Planes Throughout

made that various kinds mould be tend. Paper-Street relation

J. Charter Cowley of Blair & Co. Inc., of New York Julius L. Evenant visa president, Persentresia Saltroid in Frai Harry of Kassas City, representate the hotels and remarkable along the Santa Pe route.

Bickerd Boyt of Harden, Stews & Co C. M. Keyn, assended of the Cartin Asserblene & Motor Co.

Without B. Mann, sharf seatment of the Ford Motor Co.

James C. Willers of J. C. Willem & Co. of Lewis th. T. The commany also place to repartette as the new to-The general plan is to arrange the schedules in unit a my Amount the other pretice new in contemplation or a break Processed bandone fields will be purplessed near Colu-

equatry, wherever traffic made parties. It is the attached Coolidge Sirns Measure Reducing Air Mail Rate and Allowing Long Carrier Contract smoothing the Air Mati Ait of Feb 2, 1905, as awarded to

fraction of an outer to See outs, and the Postmante Game The overdments read as follows:

tractor and the configuration of the obligation of the merfuture therefore of an air such route excidente, which delhave the right of carryings of par read ever the route of ot. Service and adjusting air seal operations to the advance of ricci chin noneplane

energy cut such rules, regulations, or orders; nature of not intraded cancellation to be given in writing by the Posters

the oriental emiract of the air mail roots sertificate take

Purper is Damaged as Melchior Attempts Take Off From Greenely Mainland Runway Court Freist, Liestenat Quenda, Ceptain Ether, and hanne leading souddings were found unfavorable. Melebior to say but ofter reaching a height of a few feet, the Bro-



he Conney and his meebrain, Thibnuit, both of the Owns-

No further extempts to fly the Brennes to New York will "New 2 That after rection 5 of and Act (United State) is unit bounted of the seriousness of the demage. It has

B. F. Mahoney Aircraft Corp. Will Move Late Londont St. Louis Eastone June 15. mad custracter, and which shall provide that the belief see that to fee Dupy, and the demand for airplanes in far outwhatever, and prefers as shall from time to time to come? of 22 places a morely, Nigham and For the present the only the Period and Control for moving the needs of the Period and will be the Day Broadway, the first managery storage

for General and 60 days provided to the habber is which by volume and will point a completely everyped office rate of compensation to the helder of such an new such rest. Salmon under use in July, the named to receive the new rate of compensation to the helder of such as new such rest. rais of compensation to the helder of such an ner men are the plane made up to July, the company the contribute shall be determined by periodical negatives by with, solution one from Warner, Pekeel, for plane of entificials shall be determined by personner represents to white, solving one from Warnew, Pelson, the plane be-trace the confidents habber and the Postmanter George by motion Landburght "Squart of St. Lenn". It is to be used

WORD HAS been received, as we go to versus. that

French Air Mission Now in United States To Study Our Civil Aviation and Industry HINTEN PRENCH asymptotical experts, members of a

Ornered Sancabelle, settred, French Arroy, Andre Midelin.

Henry C. Yeiser, Jr., is Elected President Of the Metal Aircraft Corp. of Cincinnati named to Statement, any personant or the talest of the Me-

May 28, 201 May 25, 2925 visible condy at a height of 1,000 ft. Thus, with then by Major Lutz Wins Curtiss Marine Trophy New Airway Marker Called "Aerovane" arreary markets in position, it is possible sat, so pile; Is Demonstrated at Wichita Conference naved the treatile and last of time in from at renter an

Firebre. The new market safed the "Automore" was demonstrated



on various in themselve, and 25 ft. on height. Anabored at the very tip is a wind-ooch, there fort in leastle Located night feet below, and controld on a hegierated plane, in a valley, has the maps of the town to which the arrow is noistray, lettered to black. On the tail of this arrest, which is a Totaled air rather below that have across, in a size board,

partied in while letters, will be merced the name of the town,

Three Massachusetts Airports are Added

To American Airports Corp. Eastern Chia Fifth Ancesa, New York, Statesan Hanks, received at-

District of Construction. ports were excited on with General Betler Ames and Justi bernes of the Lewis Airport: Frenk and Harry Tall of and V. Smith Descript W. Lancely, and the officers of the Wo-

Issuer Tufts of Pinghorst, and Henry Page, Jr. of the To Develop Southern Chain

aleport's instal faid will have an area of \$50 acres. Wel-The Newark Asspect, for which the America Actor.

11. mr Head Plane at 157 M P.H. Average WALL HARLES A. Lots, whereas of the Marmers and some in officer of Brown Field, Quantum, Va. was the

finding farmy upts from provision has been und in finding it in storage upset of 157 to mp.b. Although on Mary loss received from auspetfron from only two other siane, both of which were Hawks squepped with the Pratt Yaral Az: Statem, American, at a speed of 15410 m.p.b. and Care Married C Maper, U.S.M.C., of the Person of Marry Late has been figure for five years. Immediately the project he was mad from his as a navel symbol. from the training school at Pennstein, Phy. Major Lett. stack out for post graduate work and obtained admittance class was ginth; Lieut W. J. Skellery was 10th at 164.61 The content their year is madily was a demonstration, at with and Lord, E. W. D. Woods, 11th at 161.00 min h. igh word, of the Nary's service type steplanes. The exmany year divided rate five classes. Fighters, successful. in Hoster, Fleet Spotters, in the form of Vaught Corners.



commission of the Name Walter compressioner Marce Land.

been of Acaphibians, two with air couled and two with we to colol sugress, as general purpose observation types: elies (by the Washington Eteratay Star to the witness of Blund P. Warner, astistant correlary of the Navy for the new loss risease of court to the inners official begin speed per-resone for that purboder type. This cap also was uptered by Major Late for group the best high speed per-The group winners were. Land, W. G. Tomileson of the North Air Station, Annecesie, praining plants, average revol

the Appendix Remarkance, Secretainer Floor, Associations often, 114.00 mphy Lacet, D. V. Gelbery, also from the Flact,

noth Lies Comdr. Googs Chapling, Bureau of Acresmof the Naval Aur Stature, Lakeboard, N. J., was notich at 115 99 m.p.b. The latter two had Wasp region! Leaving Are. Bushy, U.S.M.C., of Brows Fold, Quention, Va., flying a

Torpolo and Bombrug class 205 65 may h. and Mayor Lens

Schedule Loening Trophy Inter-Collegiste Air Bace for June 16 at Mitchel Eigld

Lientmust Gallery, in the torquels and bombing pince

cross the starting line is flight at an altitude and greater than half safe hafars eventure the starting line. The Truply will -6500 Oct Proc. 6500 lot Proc. 6500; while is addition The solven of the control include Calonal Lindbanck C. V.

Union Oil Co. Travel Air Plane Now Making Extension Tour of Oil Marketing Territory of the nor fields in the Europ Oil Co's king and white Travel

from Canada to Mexico.

That is the first of a floot of sleptanes to be placed to seryou by the available department of the Union Oil Co, and

May 26, 1901 May 26, 1928 man farmerly good by the Government during the William Demonstrates DH "Moth" With Slotted Ecosch Oversitation Builds on All Metal meltiday aderess, of 212 to, ft. The otherms extend the Wright Whirlwind Powered Cabin Plane Wines to a Representative of Aviation but with Arr American, New York, demonstrated at Cartem Salamon 130 hr. Wheelward 230 honormal maximum at Assister Construction Co.), The Avigate A.V.M. 60 F.A.L. Officially Recognizes 318 m.p.h. d.B. m of all metal construction designed to mee a Subseque Speed Record Made by Major De Bernardi the or life has course. Learning 200 has another, Americans. One poor OFFICIAL NOTICE has been received by the Natural Dated. Lynx 200 hp. segree, or the Wright Whatwool and With Taylor handling the controls from the rear control. Carefron over and street ants are unweded for the passengers in the cabin under the received to American removerial true moncelance. The re-Mai, Music de Bertardt, Mocchi SZ, morsulana, Post se. too not are kinged to the lower imperces, while the shock shorter is contained in the compression stead and branch is the super faselage longwoon. The shock abserber consists New Hallett Seven Cylinder Radial Engine Mai. Mano de Bernardi, Macelo M.52, Fast SI sorces st. Performs Well in Plane After Test Run Lole, Nov. 4, 1907. Record-297 616 mph. (479 190 h ph.) APPER APPROXIMATELY 150 by of apprelion on the Dard Cortin-Revol Propeller Ward has been received by S. A. Beed, propeller investor, ted bride smort plane, but at the wore of \$6000 to the Eveloch that this record was established with a Curtus Book found inclused of any earl was found necessary in the engine string of contest victories achieved with the Curtico-Bool New Five Cylinder Radial Aircraft Engine Energes and codumn for the first lot of 100 ergines have Being Tested in England in Avro Airplane Announce Schedule and Stops for New PROVE AND below convolcted to England on the "Titat". a for crieder radial rasins now intelled in an Aven trans-Albany, Buffalo Mail Line Onening June 1 Although the standard Hallelt radial has a disclusioners of 525 en. on, a special model in being built to color for the to minitaries of breken, though they are not provided as National Air Bases. This service has a slightly smaller hory given it a divetament of shahily under 500 co. re. or evdevolute a maximum of 200 kg as 1970 up in D is raised at der that it may be slightle in that class. Incounced Fp.m. 200 by at 1700 upon. The engine weight complete with for 60 ppl tenks, one in each wang. It is elasted that with the fuel load the A.V.M. 92 has an endormore of the hours or an average of 500 ma. City Conneil of Los Angeles Drafts Aerial some alog recentling our duralization. The internal struc-Ordnance Requiring Licensing of Airplanes recommendation a street to the effect that no plane removed because by the Department of Commerce, a new with the engine randord the Arts is been to have a re-The new city orderson also provides that every pleasely corrector within the city must hold a city favore and most New Engineering Department Members returned suppose would be the flavour. In addition to Or according to serval trails rules cathood. Among those International Aircraft Corn. at Cincinnati Aunounced by Kreider-Reisner Company rules terrology noises by specific permission of the only mana-Dedicates New Factories and Flying Field customeries personnel of the Konder-Britter Average Co. Department of Commerce Awards Type to of to negle with a sheet of eachel proceed serves the cor-Certificate 39 to Berliner OX-5 Airplane or, this og si a simed notion. The loteral halkheads are AND DESCRIPTION HAS been made by C. L. Of custom

while we's a Wright Whirtwood it is 100 m.p.s. With those region the criticage speeds are 70 m.p.h. and 60 m.p.h. re-

periodic while the leading speeds are 34 m.o.k. and 45.5

and the length 9 ft. The wang is preferagelest in piece from the passact type

plane Mfo. Co. of Farmingship, L. I. and M. A. Kills, for

the afternoon, and next day Sanday, if was estimated that

The laterestonal Alrewill Curp., which occupies the build- need mass the first of the year.

Department of Commerce serviceshird engages, that Ap-

and those place, upon cockpit credt. The plane's wing is of

Last Minute Briefs

Dr. Huge Tuekers has returned to New York after having

Lee Hardman Harms, paterer surport engineer who have

The Daniel Gappenbern Accountred Laboratory of the

Edward F. Sebler, possedent of the Wayne Oil Co. of De-

final outry in the 1925 National Air Tour, which began from

Alexander "Tomory" Thompson has mempurated the Thompson Flying Service at Solt Lake City, Utah Ira Burke has taken the agency for Travel Air planes to

Bert Weeks, encour sychology, has taken the agreet for A. V. Tindes, the president of the Tindes Metal Avend.

plated its first brokers, the "Katy Havk", powered out .

Level Chiller C. Hatelancou has been appointed fight

of the Roberton Pivon Service, Lowinson Pokaspeier a un of neial covered with their darwheirs making tills ner

G M Relience in to build a menoplase powered will be Taxanter of are send from the Newsch, N. J., field, to the

A new acrost camera has been devaloped for the Porchit

Dicadonne Costen and Jaseph Lebrus, around the world The Weeks for Craft Corp. of Milwayler, Wes, has taken

May 28, 1921 May 28, 1928 The Boselon Approxit Corp. of Hologreen, R. L. Ivo etc. C. M. Bellanca Completes Large Hornet

Propertyl Seaminlane for Course Sabelli to have blanc, a recognition powered with a sends 1900 ampleted for Contro Sobelie, on Balton World War nee, is force Q Williams, palot, and Pietro Bussila, newposter The place has beauty original features including a primetable

h = 50 ft., rt weight 4,000 In empty with tooler, sentraments.

year is said to here seet \$15,000, and it is stated that the to addressed \$15,000 to occur the other excesses of the finds:

Acres Corrected Series of Write Paul, Depter, p. 15. Krystone Company is Awarded Government Contract for 35 "Panther" Rombing Planes owing very market \$1,200,000 to full has been averfed dense. Of the Arts to the Arts and the Arts

wealth of reformation on the construction, maintenance and courselos of sierrest acquies and accesserse. The hand-

A number of Locus Cohn Amphileans are now under Co., Marcon sourie, has previously one of three planes for

12 Navy semblas to straklish a new world's scapture cudur-

first Pastker by next October, with the full order to be com-

Price of Loening Cabin Amphibian Plane

Is Increased from \$24,700 to \$26,700

REVIEWS

upply of Bride managered manual programmed publishers FACA orbitalistics may be obtained upon require from the Authority Science and Authority Science and State of Science and Science an A B C of Flight by W. Leurence LePaps, rehinded by

place and of flash. It assumes no previous knowledge of the

modern arrange in depoched in detail, while a complete char-

ment of me better location for it as known. This will should Many Civic Leaders in the San Francisco Area Roost Citizens' Aviation Association TWENTY TWO CIVIC leaders and East for availor

Our Tamer, E. H. Pold, Max Borrinshi, Max Liverston Subler, W. E. La Felletta, Capt. George D. Renn, Voortmeyer, H. B. Ameriach, Harris C. Forgusce, Phillip

David Bell Company Issues a New Catalog Of Its Automotic Scene Machine Products DAVID BELL Co., Inc., of Suffalo, N. Y., secondly respect turned by the commany, which include recorder but wallers.

incoperous. Bull products are made from cold-fraws or but colled. New Tri-State Airlines, Inc., at Sioux

for general transportation and tast work. Borol Miller,

Fuselage Analysis

gone magnificatorers nonally energy the location on their blue-

the work or realizing up the panel lead table which o the ne-Distribution of Panel Leads. In the analysis of the four remaining major makes samely, high and low spridence, level landing and thousand leading, it is necessary that all the weights of the plant is



up among the panel points which expressed the curtain rought. For example, referring to Fig 70, the passenge waght. For country, receiving to Fig. 70, the passage washes of 200 ib, lies between penul points S. 6, and T. 1 sent therefore he datributed among their points. reference has be the same at the original moments of the waights themselves. If this is not the pass that reuse to accordance with the balance disgrees of Fee 78. The fee



oten in making on much a table as to let all the panel pool tive to the datum lines. These arms are to be measured to The next step to to list the balance takin as it was even ? pay morel load table. We are now youdy to sometic for

tween them. These weights may be placed at parel posts

Mer 25, 1920

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We will be elad to assist you in determinant the adaptability of this

Maraville

connel to wiskly erporated branches BUHL AIRCRAFT COMPANY

accord a panel station 1. We perfer to bandle them on here is the table. Later in the reduction scaleur detted the course day to these everbangers worthing regard along

Vis. of tech law between four panel points. This is a con-

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the new modern want points much be handled quite different. For Circlestian we have taken the namenacy weight of 530 Moline



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bility you expect from redials of the five and seven thousand dellar class. Orders we receive in and our dealers from chine represents a valuable asset to the right overelastion. Your territory may yet be open. Wire or bener still visit our bosy factory of

390,000 square feet at Meline, Illinois. Patra Subt of Moline Blimete MONO. AIRCRAFT, INC.

Suilders of the Mesoscope and the Mesoscoph Illinois is despected to the figure by possi P. Possi P in the figure

May 25, 199 May 25 1926 is located accurately with respect to the automorphism panel N.A.C.A. Progress

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Treat foots

Panel Posst (5): 330 × 50/234 - 116 ia Panel Point (7) 330 × 65/2 20 - 182 B moment of the 330 fb. weight times its sen of 101 :- Il a to be noted in competing any particular panel lood on the from P wantful to the line. The name what are name way for the nexal lead teble. With a Warren true frank structure this method will always have to be used for stee faller while the transfer. The measurements movied as the figure are to prefer so the figure was originally drawn It is likely that it will be reduced in publishing but all the It is taking that it was be formed in passaumy to description will hear the same relation they now do

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and chapter the four remaining mater confidence will be

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Gestimud from none 1525 to as to what form of cowline and fineless show allow

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In the necessariest engineer, the mariable precoper word total view ordinary atmospheric province is used, a sernotes cost he made for the sente offert. In other words,



The . . . Meded propoller mounted in the N.A.C.A. 20 ft

beauty of the six and therefore its density, it is thought

out in clear spans, their unob

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is calculate establ performance from small models comider-THANK YOU BE INCIDENCE AVIATION as the tuned run up to 500 lb, nor on, is, and the technical show that the mustingsa promptus occur at the step when

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enables one to see the flow shoot any object which is retro-

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The engine divinus of the NACA is conductor a review

May 21, 293

an arrange engreens fary to the plane and were greedy to there the cause speed and both kept on an even heel. The

AVI STION

purpose of safety devices, the NACA has also been vol Handley-Page slots. They have also devoked a wang

shoul the same. This woman that in fight a plane would not

Rules of the 1928 National

Air Tour Continued from page 2522

ever for the deflorence in resulting and oil concerned degree 1101 (a)-The Council Committee will require each plane

O:-Those speed trials will be held, at the option of the Consultion, at may tone during, before or after the stock and (c)-In order to discourage manny and its attendent desthe corner speed for an underidual lap shall full below 90 Per coal of the maximum credited reveal. In such an event

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The ASPA House procy of Avenues as a se page Profesor Alexander Kleux, Denset Gugpeshore "I have vow had an opportunity of looking through The ASPA Blove Study Course in America. It is clear, second and well proposed, and an excellent introduction to binatical avistom." Cal. Harrid E. Hartner, American "Ass" supp. unst convenients von en voor Home Stody in Avention. B gives an excellent bana for anyone

First J. Logan, Available Jobber, Gereland, widon, "Tony Commo green to the layeness, in sample Lt. Leigh Wade, Remailthe-World-Play, says Tour Course is a wonderful expection of the fan dementals of accounts on I can readily recommend

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created worse to manufacturers, sinks and schools.

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Place has a model load value of 1200 in and shows a maximum uponl of 120 m.p.b. 15 per cent, of 1200 lb. in 900 ib. 50 new cont. of 125 on p.b. on 190 on p.b. Thus, of the plane serves 900 th, and the lop speed is 200 m.p h. or het-

the setted makes per hour will be used in the facustia to de-

el 50 X — Ponta Start + Durtick (III) The winner of the 1926 Neliceal Air Tree shall be contestant who has the highest number of points ander the

Horsel receives that he neverted to the contestant horse

Retracts, Controlants and Entrace-(13) For the purpose of these roles the Entranta shall be horizont shall be defined as the Point named by the Entrary to fir the place and deport to activities. An Ester shall be

(35) An entrust desiring to offer a place for resources

incent Air Tone", in the amount of \$150. In the event that

served by the management before that time or which shall sect A sensor as heremarker provided. Under no carearto the Tear Manager and later than S A.M., on Wednesday, have II, and under those correspondences, will be considered as a placed entry. Deleved entries may be subwitted to writes creamed from all animate whose applications have

to Enroyal shall setably start the contest and shall even the

send of festione to so start, however, used entry free shall be

May 25, 1988 May 28, 1914

> of Commerce and stock other pageintness as every horozonther (16) Extinus shall be numbered at the order of the pr-

place to take off. Entry No. 2 will take off second and to skal grown the start at each control throughout the cutors

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tal or the lest regle control station. In this maxime the last there to be should be at a night needed statem shall be the fall of the nebr of departure from these shall be in the tial cools to all scattal stations enough the last caused various cut of Detroit on the last day of the Tour. On thus tiol by the plane which shall have the highest total number

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other questionable conditions. If it appears that there is not

(20) The start of the first and subsequent please from ref

New 23, 1928

: (2) All artries, consisting of planes and pilots, shall be permit checkers to weigh up planes and complete the work

secretary william 45 hr. proof to the start of the Cautost or

of the reasonable physicism, in physical condition to do no

ull to a manner which, so the opinion of the officials as a

plus In addition to the generate and ad, that had may, fee

partners of Commerce and specified in the approved type

or two National Arr Tour, provided he can show antifence on 1800 cannot All 2007, provided as one show evidence of the Association of Devices of the United States Department of Community and that in addition thereto, hold an F.A.L cortebnate and



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201 At 9 A.M. or Thursday, June 25, the first place day take off from a standing start for the musical test. The

on that at my time will there he more than three plane in the air at the same time. Three timers will check the rander of ducronager between the timers, the average time shall be take.

(95) The second and third plane of each proce will us. off at elevate in the nector's tests and each pilot will seen (37) Inmediately upon meeting signal to laid for to stack test, the velot will comply. The timers will then that the number of seconds required to broug the plane to a dail

time that the results may be comparative. Each contribute

sirate to the satisfaction of the Contest Committee that he (a)-35 will be passived that the pilot of a three-expend plane chesh from 1900 ft, alptado to 2000 ft, altitude to it-

he shall close from 1600 ft. to 1400 ft., with the make copies And he shall cleah from 1400 ft. to 1700 ft. and with the left spring dead he shall shink from 1700 ft, as 5000 ft leed ali engines. Oh. Where a terromental place is employed, the pile most slimb from 2000 ft, to 1300 ft, with one envise deat sale

from 1300 ft. to 1500 ft. with the other engine dead. If vaccountal, he will be allowed a cuber desplacement figure of In the event of failure to do that is either case to the calto one event of the Contest Committee Observer, the fetal rate

(All In addition to the Robel R. Ford Reliability Trojky

May 28, 381 Wey 28, 2008

> the plane obtaining the third legiset number of poletic to the phone obtaining the fourth highest number of newto. In the place obtaining the 87th highest number of month. to the class obtaining the night highest another of previous

to the plane making the best showing and observer the

To the plane obtaining the night's laglant number of posets. To be since electricity the cards highest number of points, No the olone abbaies the tenth blobest number of points.

into he predests shall be opposited unless presented to vib F 5 L rates Nov. 78, 79, 80, 81, 82, 83, and 85. In the

off; There shall be a greated messages of the Your in approval of this resembliss, employ such persons and

Ireland Amphiplane The only place of zo kind in production Production whered for shuttle week largery argorits and interest water leading. As more

a peaker Criming speed 85 miles per later Open or closed cookpa — 5 place IRELAND AIRCRAFT. INC. GARDEN CITY, N. Y. _____

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shall be permetted to obtain such arcirlator as may in conparty at each control moist and may at his despition com-

May 75 tax May 25, 1986

(46) There shall be a chief tener, appointed by the Co Bauchers, the Starter that he charged with timing the plan-

winner entracts, except upon written netherity of such a tracis designating same other person. No prophy stall to

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The Detroit Air-Olympics Gestiverd from page 1620 committee. Charles T. Buth is vice chalenge of the nov. Is staying the 1928 Gorden Bennett race here Dound

city for two reservoirs years. Should America will his re-In the third major event of the Detroit Au-Ofrene . on Namenal Mariel Airclane Control. Griffith Owlers Ellis, 5th --- of American Roy Macrotter, on charge of the excite to company. The wanter of the model place contact will

and A cover Althouse of the Case Technology Bight School fe-Charles V. Katterier, was normalist of the General Materia as Observed. Special exteriorment will be provided for

to American poternment officials and representatives of for-Reducing the Cost of Fire Insurance

set is much of an inconvenience, the deliverage in the fire marrow costs probably more than effecting the additional The panel room will be emerged with a forced weekleton. spine expable of shanging the aur at least every three semone, and the room will be bested from an outside course;

from the negacia will be forced rate the room, for, in con-The electric light bulbs are equipped with vapor proof. Street of dope in the paint reces is build to a one day There was some assession relative to the thickness of walk contraction much or 15 rs and it was found that the dif-

below to the management pairs was not reflected to company Another fastgre which well serve to reduce the fire hazard It will be broated at a distance from the wood working buildbut will be used than prediction the saving which reight The old factory building, which is hong rescalded, in 199 includes will be so a heighbor directly west of the old one sol and he so it wate and 199 ft, long, ordine morable with

very of the old healthing and sets been from the highway at There is room in the drafting room to set my a complete The old buddens, when remodelled will contain four deNor Mah or Low Compression Engines B. G. "HORNET" MICA SPARK PLUGS B G Horser men

condulabeless in both high and low compresson engines. A less than 33 ourses. the mehr is the exact

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> stem Markis, Misky.

Mer 25, 1998

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the first county county and with the furtilities of the for the more ample countyre. the 1925 production is stated

The Stimon "Iunior"

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The Szekely Engine Safer! . Am to been both to the vision and in the secretion and

a dea respect. There is but one cam to operate both the tions from a year year on the greatestart and operates to secuted on a shelf which is an integral part of the rear

over said drives from the suppose by meson of spar genra.

The weight of the current with all summeries, in guarantee-1 sentrated that the august as sheaf for a neight or two place twee 455 and 525 ib. An installed in such a place, the stiof from 1250 to 1600 years. Flight tests show that the finel As this article as being written, the Department of Com-

here is needed as observer to the print of the averaged arrange assertably tests to as in give it toom approved the housed marged. The fact that the Department found the

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